TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042 Tel: 031-321-2664, Fax: 031-321-1664

1. Report No: DRTFCC2002-0045(1)

2. Customer

· Name : LG Electronics USA, Inc.

Address: 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632

3. Use of Report : FCC Original Grant

4. Product Name / Model Name : Mobile Phone / LM-V600EA

FCC ID: ZNFV600EA

5. Test Method Used : KDB789033 D02v02r01

Test Specification: FCC Part 15.407 Subpart E

6. Date of Test: 2020.01.06 ~ 2020.02.10

7. Testing Environment: Refer to appended test report.

8. Test Result: Refer to the attached test result.

	Tested by		Reviewed by	XI .	
Affirmation	Name : JungWoo Kim	Sartes	Name : JaeJin Lee	451	(Signature)

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

2020.02.24.

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If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Tested by	Reviewed by
DRTFCC2002-0045	Feb. 14, 2020	Initial issue	JungWoo Kim	JaeJin Lee
DRTFCC2002-0045(1)	Feb. 24, 2020	Revised the section 8.5	JungWoo Kim	JaeJin Lee



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1. EUT DESCRIPTION

FCC Equipment Class	Unlicensed National Information Infrastructure (UNII)		
Product	Mobile Phone		
Model Name	LM-V600EA		
Add Model Name	LMV600EA, V600EA		
Power Supply	DC 3.87 V		
Modulation type	OFDM		
Antenna Specification	Antenna type: PIFA Antenna Antenna gain: Refer to the clause 7 in test report.		

5GHz Band	Mode	Tx frequency (MHz)	Max power(dBm)
	802.11a	5180 ~ 5240	18.63
	802.11n(HT20)	5180 ~ 5240	17.67
U-NII 1	802.11ac(VHT20)	5180 ~ 5240	17.73
0-1411 1	802.11n(HT40)	5190 ~ 5230	17.52
	802.11ac(VHT40)	5190 ~ 5230	17.51
	802.11ac(VHT80)	5210	13.60
	802.11a	5260 ~ 5320	18.65
	802.11n(HT20)	5260 ~ 5320	17.59
U-NII 2A	802.11ac(VHT20)	5260 ~ 5320	17.67
U-NII ZA	802.11n(HT40)	5270 ~ 5310	17.56
	802.11ac(VHT40)	5270 ~ 5310	17.52
	802.11ac(VHT80)	5290	13.46
	802.11a	5500 ~ 5720	18.82
	802.11n(HT20)	5500 ~ 5720	17.75
U-NII 2C	802.11ac(VHT20)	5500 ~ 5720	17.59
U-MII 2C	802.11n(HT40)	5510 ~ 5710	17.74
	802.11ac(VHT40)	5510 ~ 5710	17.70
	802.11ac(VHT80)	5530 ~ 5690	15.76
	802.11a	5745 ~ 5825	18.60
	802.11n(HT20)	5745 ~ 5825	17.55
U-NII 3	802.11ac(VHT20)	5745 ~ 5825	17.62
O-IVII 3	802.11n(HT40)	5755 ~ 5795	17.68
	802.11ac(VHT40)	5755 ~ 5795	17.61
	802.11ac(VHT80)	5775	15.47

2. Information about test items

2.1 Transmitting configuration of EUT

	SIS	0	MIMO (CDD)	MIMO (SDM)		
Mode	Ant 1	1 Ant 2		Ant 1 & 2		
	Data rate					
802.11a	6~54Mbps	6~54Mbps	6~54Mbps	-		
802.11n(HT20)	MCS 0 ~ 7	MCS 0 ~ 7	MCS 0 ~ 7	MCS 8 ~ 15		
802.11ac(VHT20)	MCS 0 ~ 8(1SS)	MCS 0 ~ 8(1SS)	MCS 0 ~ 8(1SS)	MCS 0 ~ 8(2SS)		
802.11n(HT40)	MCS 0 ~ 7	MCS 0 ~ 7	MCS 0 ~ 7	MCS 8 ~ 15		
802.11ac(VHT40)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(2SS)		
802.11ac(VHT80)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(1SS)	MCS 0 ~ 9(2SS)		

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Note1: SDM = Spatial Diversity Multiplexing, CDD = Cycle Delay Diversity, SS = Spatial Streams

Note2: This device supports WiFi DBS(dual-band simultaneous) transmission operation, which allows for two SISO channels to operate independent of one another in the 2.4GHz and 5GHz bands simultaneously on each antenna. (Ant 1: 2.4GHz band transmitting & ANT 2: 5GHz band transmitting + Ant 1: 2.4G/5G bands transmitting & Ant 2: 2.4G/5G bands transmitting) And the test results for WiFi DBS were included in this test report.

2.2 Tested Channel Information

5GHz Band	802.11a/n(HT20) /802.11ac(VHT20)		802.11n(HT40) /802.11ac(VHT40)		802.11ac(VHT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
	36	5180	38	5190	42	5210
U-NII 1	40	5200	-	-	-	-
	48	5240	46	5230	-	-
	52	5260	54	5270	58	5290
U-NII 2A	60	5300	-	-	-	-
	64	5320	62	5310	-	-
	100	5500	102	5510	106	5530
U-NII 2C	120	5600	118	5590	122	5610
	144	5720	142	5710	138	5690
	149	5745	151	5755	155	5775
U-NII 3	157	5785	-	-	-	-
	165	5825	159	5795	-	-



2.3 Testing Environment

Temperature	: 20 °C ~ 25 °C
Relative humidity content	: 36 % ~ 45 %
Details of power supply	: DC 3.87 V

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2.4 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing → None

2.5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014 and ANSI C 63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Test items	Measurement uncertainty	
Transmitter Output Power	0.7 dB (The confidence level is about 95 %, k = 2)	
Conducted spurious emission	0.9 dB (The confidence level is about 95 %, k = 2)	
AC conducted emission	2.4 dB (The confidence level is about 95 %, k = 2)	
Radiated spurious emission (1 GHz Below)	5.1 dB (The confidence level is about 95 %, k = 2)	
Radiated spurious emission (1 GHz ~ 18 GHz)	5.4 dB (The confidence level is about 95 %, k = 2)	
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, k = 2)	



3. SUMMARY OF TESTS

FCC Part Section(s)	RSS Section(s)	Parameter	Limit	Test Condition	Status Note 1
15.407(a)	RSS-247(6.2)	Emission Bandwidth (26 dB Bandwidth)	N/A		С
15.407(e)	RSS-247(6.2)	Minimum Emission Bandwidth (6 dB Bandwidth)	> 500 kHz in 5725 ~ 5850 MHz		С
15.407(a)	RSS-247(6.2)	Maximum Conducted Output Power	5150 ~ 5250 MHz : < 23.97 dBm 5250 ~ 5350 & 5470 ~ 5725 MHz : < 250 mW or < 11 + 10 log10(B) dBm, whichever power is less. (B is the 26dB BW.) 5725 ~ 5850 MHz : < 30 dBm	Conducted	С
15.407(a)	RSS-247(6.2)	Peak Power Spectral Density	5150 ~ 5250 MHz : 11 dBm/MHz 5250 ~ 5350 MHz : 11 dBm/MHz 5470 ~ 5725 MHz : 11 dBm/MHz 5725 ~ 5850 MHz : 30 dBm/500kHz		O
15.407(h)	RSS-247(6.3)	Dynamic Frequency Selection	FCC 15.407(h)		C Note 3
15.407(b)	RSS-247(6.2)	Undesirable Emissions	5150 ~ 5725 MHz: < -27 dBm/MHz EIRP 5725 ~ 5850 MHz: < -27 dBm/MHz or < 10 dBm/MHz or 15.6 dBm/MHz < 27dBm/MHz EIRP	D	C Note 4,5
15.205 15.209 15.407(b)	RSS-GEN(8.9) RSS-GEN(8.10) RSS-247(6.2)	General Field Strength Limits(Restricted Bands and Radiated Emission Limits) Emissions in restricted bands must meet the radiated limits detailed in 15.209		Radiated	C Note 4,5
15.207	RSS-GEN(8.8)	AC Conducted Emissions	FCC 15.207	AC Line Conducted	С
15.203	-	Antenna Requirements	FCC 15.203	-	С

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KDB789033 D02v02r01, KDB662911 D01v02r01, KDB648474 D03v01r04

Note 1: C = Comply NC = Not Comply NT = Not Tested NA = Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: Refer to the DFS test report.

Note 4: In case of this test item, we have done all TX test cases. And we attached the result of MIMO mode since MIMO is the worst case.

Note 5: This device supports wireless charging & Dual Display.

So per KDB648474 D03v01r04, the radiated test items were performed all not charging, charging and Dual Display conditions. For wireless charging condition, the handset is placed on the representative charging pad under normal conditions and in a simulated call configuration.

Note 6: The sample was tested according to the following specification:

4. TEST METHODOLOGY

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB 7899033 D02v02r01 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB789033 D02v02r01. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

4.1 EUT configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB789033 D02v02r01. So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB789033 D02v02r01. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on KDB789033 D02v02r01.

The EUT is placed on a non-conductive table, which is 0.8 m above ground plane. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 1 or 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axis.

4.4 Description of test modes

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode with maximum fixed duty cycle.



5. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC MRA Accredited Test Firm No.: KR0034

www.dtnc.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

6.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, loop, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and peak, quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The antenna is attached on the device by means of unique coupling method (Spring Tension). Therefore this E.U.T Complies with the requirement of §15.203

Directional antenna gain:

D. J.	SI	so	MIMO (CDD) Note 1.	MIMO (SDM) Note 2
Bands	ANT 1 [dBi]	ANT 2 [dBi]	Directional Gain[dBi]	Directional Gain[dBi]
U-NII 1	-4.23	-4.40	-1.30	-4.31
U-NII 2A	-4.23	-4.40	-1.30	-4.31
U-NII 2C	-1.41	-5.82	-0.33	-3.08
U-NII 3	-2.58	-3.73	-0.13	-3.12

Note 1. Directional gain(correlated signal with unequal antenna gain and equal transmit power)

10 log [$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2 / N^{ANT}$] dBi

Note 2. Directional gain(completely uncorrelated signal with unequal antenna gain and equal transmit power) $10 \log \left[(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10}) / N^{ANT} \right] dBi$



8. TEST RESULT

8.1 Emission Bandwidth (26 dB Bandwidth)

■ Test Requirements

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The 26 dB bandwidth is used to determine the conducted output power limit.

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■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of KDB789033 D02v02r01.

- 1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
- 2. Set the video bandwidth (VBW) > RBW.
- 3. Detector = **Peak**.
- 4. Trace mode = max hold.

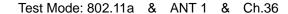
Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

■ Test Results : Comply

Mode	Band	Channel	Frequency [MHz]	Test Result [MHz]	
				ANT 1	ANT 2
802.11a	U-NII 1	36	5180	19.81	19.56
		40	5200	19.62	19.42
		48	5240	18.88	18.88
	U-NII 2A	52	5260	19.05	18.99
		60	5300	18.77	19.15
		64	5320	19.07	19.58
	U-NII 2C	100	5500	18.95	18.71
		120	5600	19.17	18.85
		144	5720	19.85	18.94
802.11n (HT20)	U-NII 1	36	5180	19.85	20.11
		40	5200	20.49	20.68
		48	5240	19.92	19.93
	U-NII 2A	52	5260	20.38	19.60
		60	5300	20.14	20.63
		64	5320	20.18	20.02
	U-NII 2C	100	5500	20.22	19.70
		120	5600	20.25	19.83
		144	5720	20.44	20.13
802.11n (HT40)	U-NII 1	38	5190	39.33	39.56
		46	5230	39.08	39.12
	U-NII 2A	54	5270	39.42	39.39
		62	5310	39.64	39.15
	U-NII 2C	102	5510	39.56	39.24
		118	5590	39.33	39.52
		142	5710	39.35	39.37
802.11ac (VHT80)	U-NII 1	42	5210	81.24	80.87
	U-NII 2A	58	5290	81.91	81.50
	U-NII 2C	106	5530	80.83	81.84
		122	5610	81.62	80.92
		138	5690	80.92	81.18

Result Plots

26 dB Bandwidth

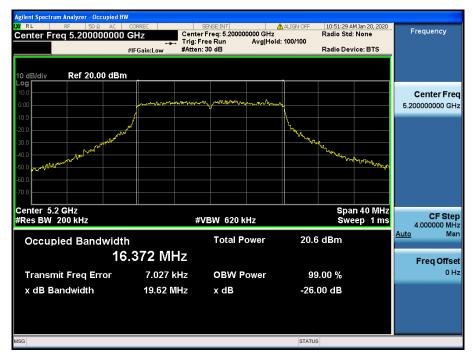




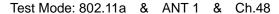
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26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.40

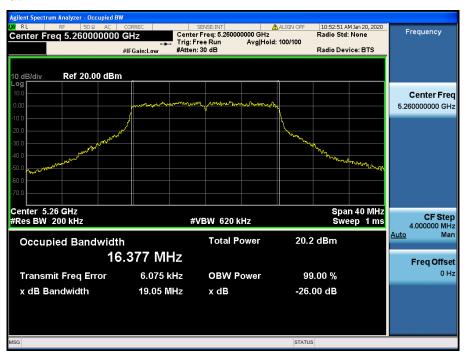


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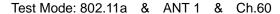




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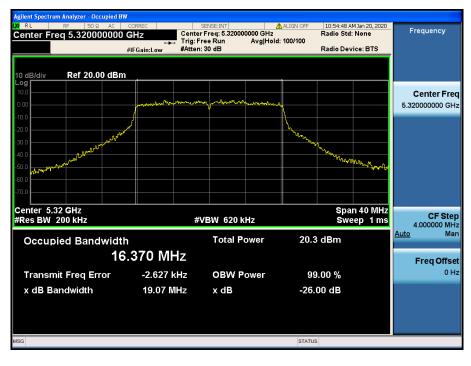


26 dB Bandwidth





26 dB Bandwidth

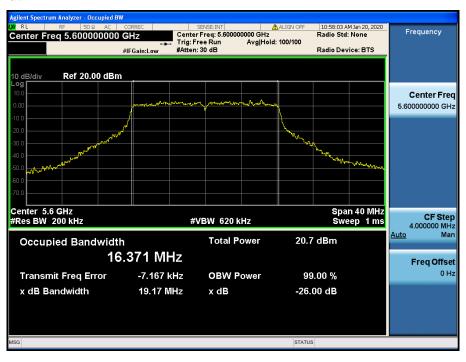


26 dB Bandwidth





26 dB Bandwidth

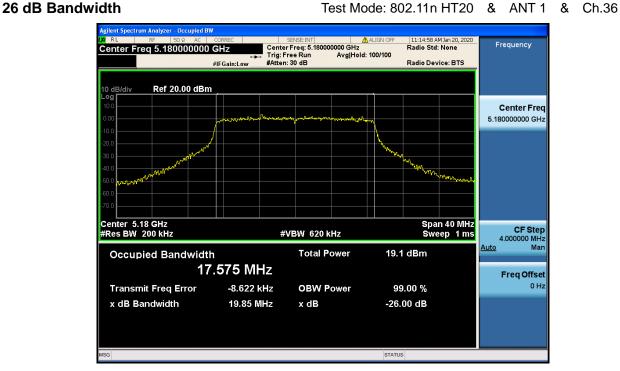


26 dB Bandwidth

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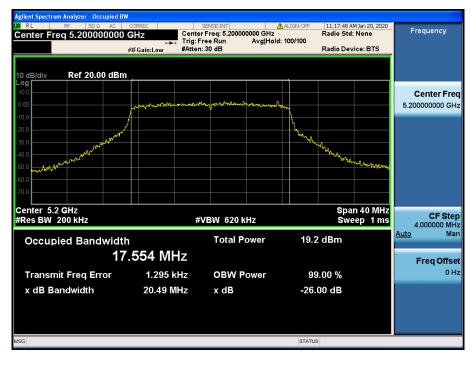


Report No.: DRTFCC2002-0045(1)

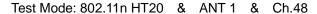


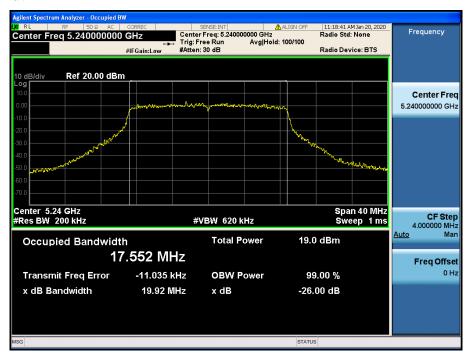
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.40



26 dB Bandwidth



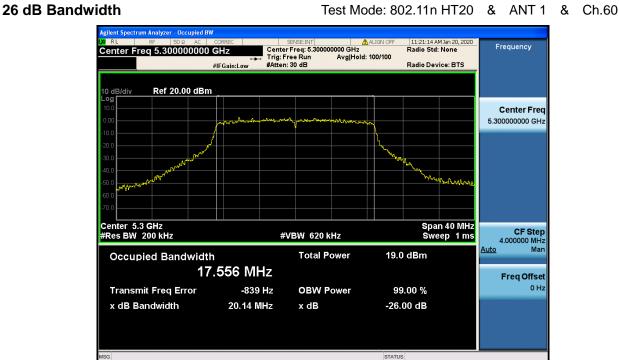


26 dB Bandwidth

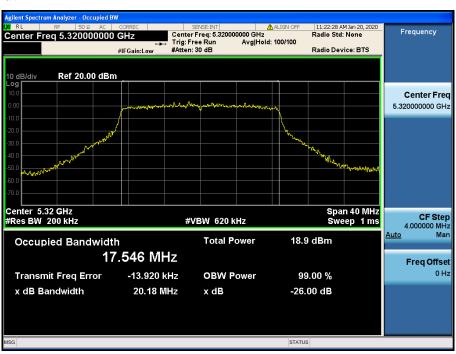
Test Mode: 802.11n HT20 & ANT 1 & Ch.52



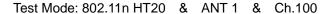
Report No.: DRTFCC2002-0045(1) FCC ID: ZNFV600EA

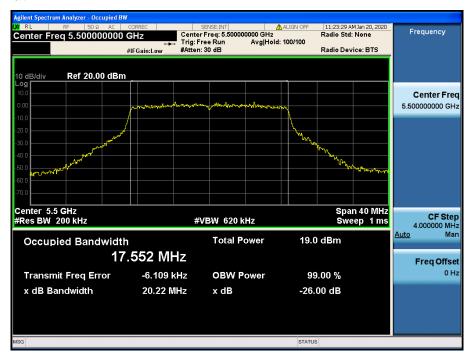


26 dB Bandwidth Test Mode: 802.11n HT20 & ANT 1 Ch.64 &



26 dB Bandwidth



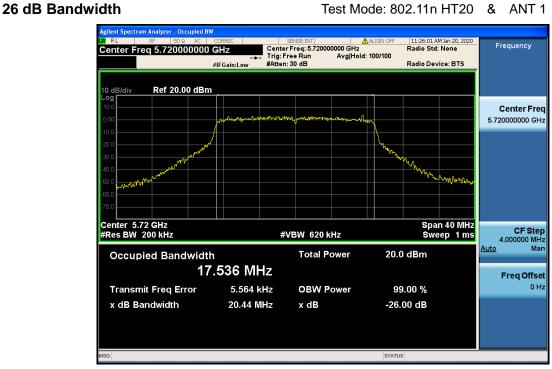


26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.120



Test Mode: 802.11n HT20 & ANT 1 & Ch.144



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26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.46



26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.62



26 dB Bandwidth



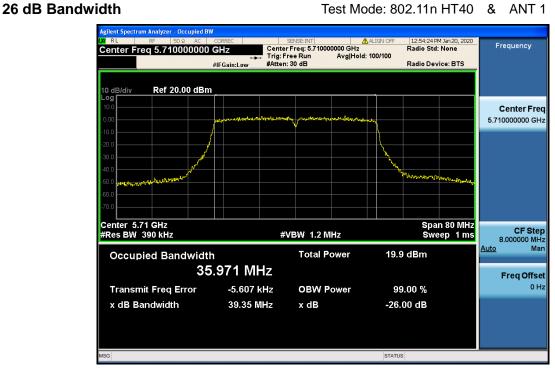


26 dB Bandwidth

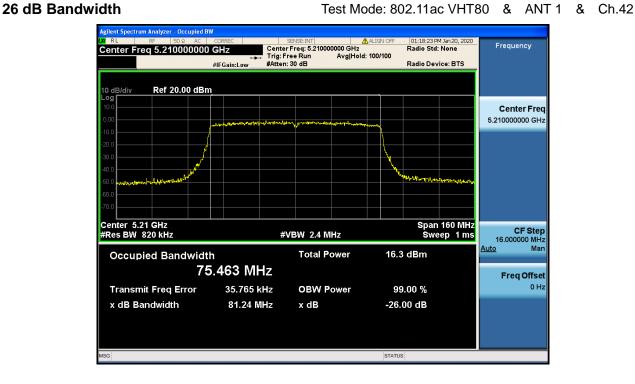
Test Mode: 802.11n HT40 & ANT 1 & Ch.118



Test Mode: 802.11n HT40 & ANT 1 & Ch.142



Report No.: DRTFCC2002-0045(1)

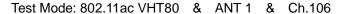


26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.58



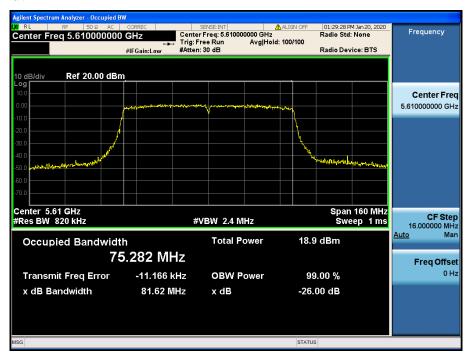
26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.122

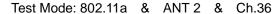


26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.138



26 dB Bandwidth

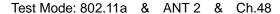




26 dB Bandwidth

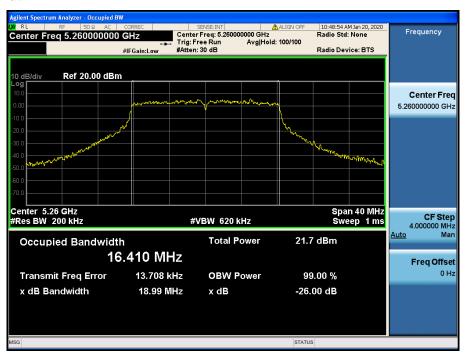


26 dB Bandwidth

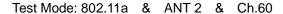




26 dB Bandwidth



26 dB Bandwidth





26 dB Bandwidth



26 dB Bandwidth





26 dB Bandwidth



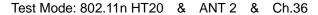
26 dB Bandwidth

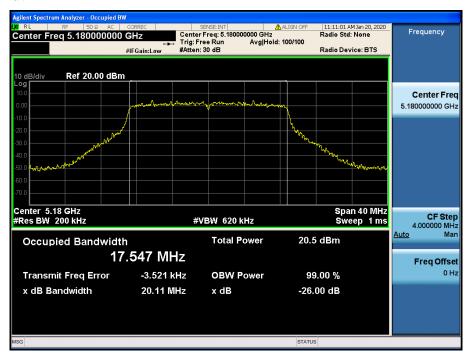
Test Mode: 802.11a & ANT 2 & Ch.144



Report No.: DRTFCC2002-0045(1)

26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.40



26 dB Bandwidth



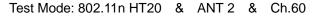


26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.52



26 dB Bandwidth



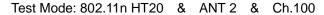


26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.64



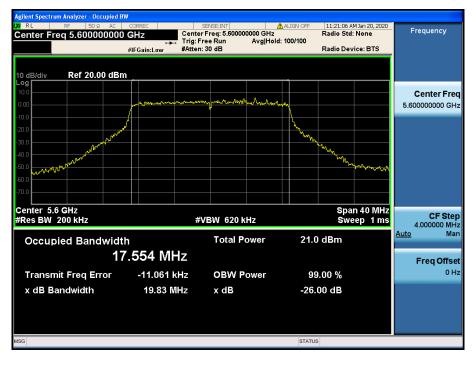
26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.120



26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.144

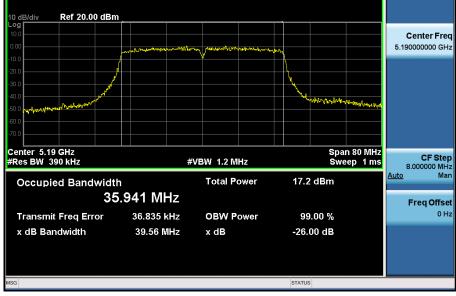


Report No.: DRTFCC2002-0045(1)

Test Mode: 802.11n HT40 & ANT 2 & Ch.38

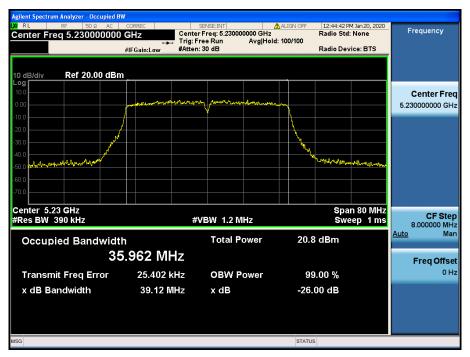
26 dB Bandwidth





26 dB Bandwidth

Test Mode:: 802.11n HT40 & ANT 2 & Ch.46



26 dB Bandwidth





26 dB Bandwidth

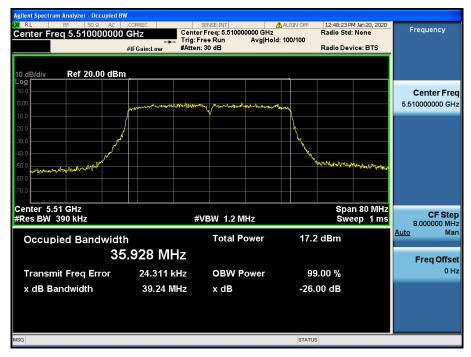
Test Mode: 802.11n HT40 & ANT 2 & Ch.62



Report No.: DRTFCC2002-0045(1) FCC ID: ZNFV600EA

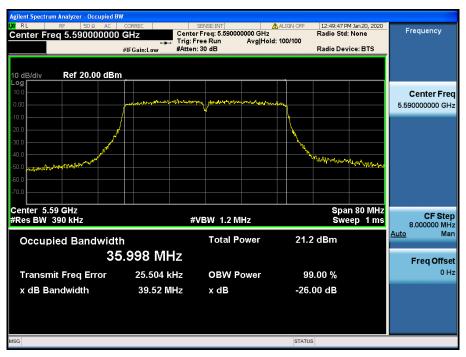
26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.118



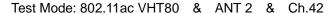
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.142



Report No.: DRTFCC2002-0045(1)

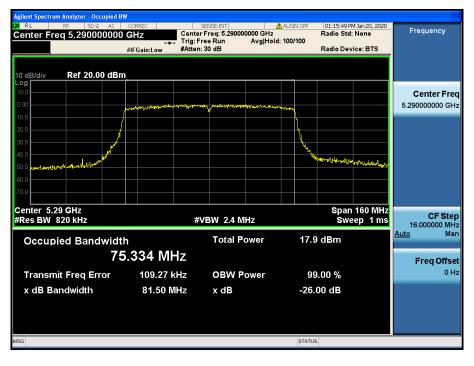
26 dB Bandwidth



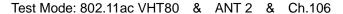


26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.58



26 dB Bandwidth





26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.122



26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138



Report No.: DRTFCC2002-0045(1)

8.2 Minimum Emission Bandwidth (6 dB Bandwidth)

■ Test Requirements

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB789033 D02v02r01**.

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth ≥ 3 x RBW.
- 3. Detector = **Peak**.
- 4. Trace mode = max hold.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

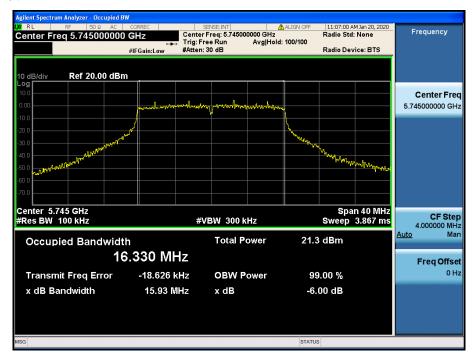
■ Test Results: Comply

Mode	Band	Channel	Frequency	Test Result [MHz]	
Wiode	Ballu	Chamer	[MHz]	ANT 1	ANT 2
		149	5745	15.93	15.93
802.11a	U-NII 3	157	5785	15.55	16.31
		165	5825	13.84	15.97
	I II-NIII 3	149	5745	15.90	16.70
802.11n (HT20)		157	5785	16.56	16.55
		165	5825	16.54	14.47
802.11n	802.11n (HT40) U-NII 3	151	5755	35.97	35.35
(HT40)		159	5795	32.57	36.36
802.11ac (VHT80)	U-NII 3	155	5775	69.76	73.91

■ Result Plots

6 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.149



Report No.: DRTFCC2002-0045(1)

6 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.157

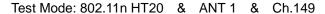


6 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.165



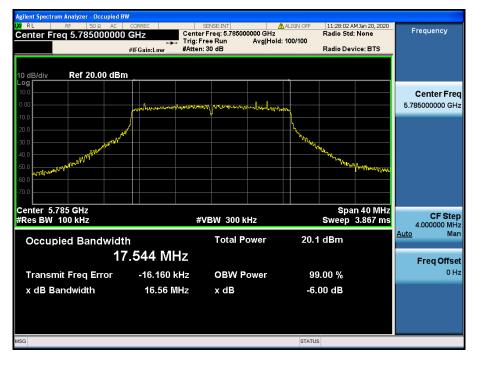
6 dB Bandwidth





6 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.157



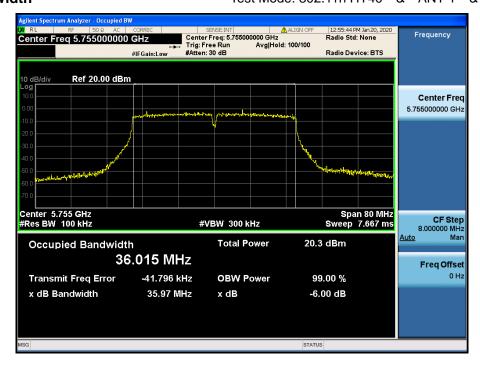
6 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.165



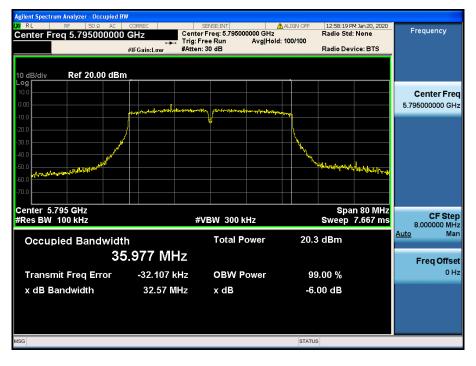
6 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.151

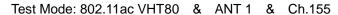


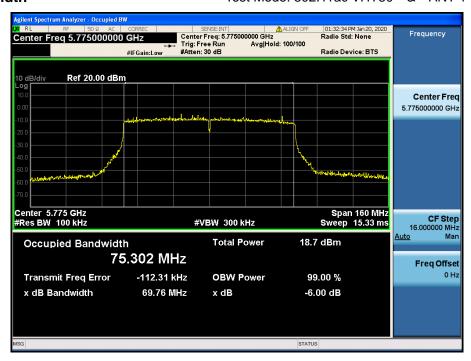
6 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.159



6 dB Bandwidth





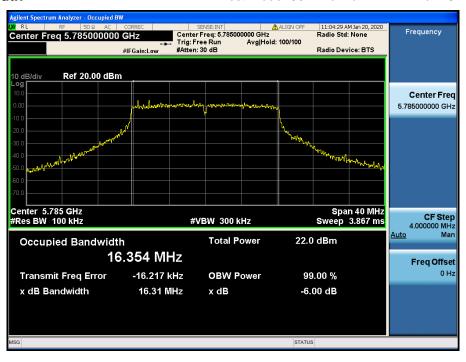
6 dB Bandwidth





6 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.157





6 dB Bandwidth





6 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.157



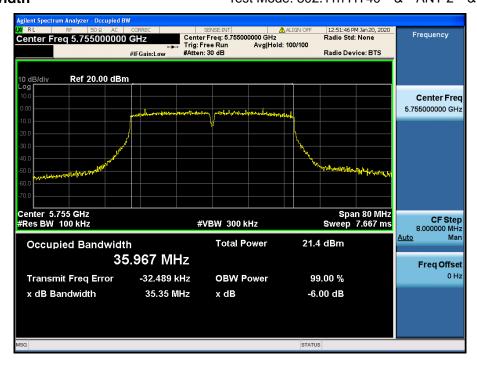
6 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.165



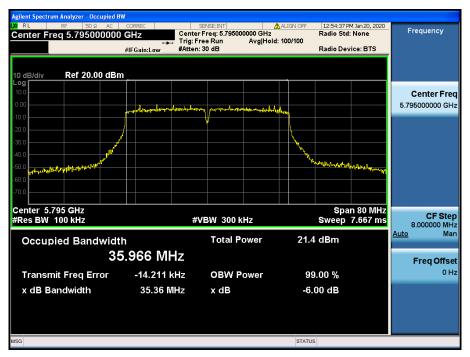
6 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.151



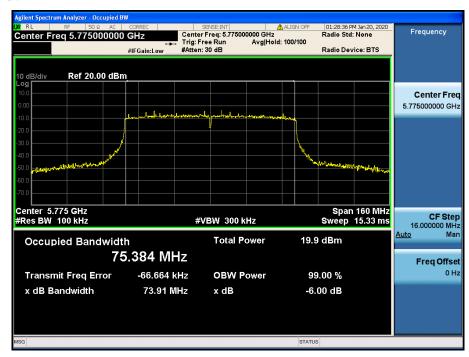
6 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.159



6 dB Bandwidth





Report No.: DRTFCC2002-0045(1)

8.3 Maximum Conducted Output Power

Test Requirements

Part. 15.407(a)

(1) For the band 5.15 - 5.25 GHz.

- (i) For an outdoor access point operating in the band 5.15 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25 5.35 GHz
- (3) and 5.47 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (4) For the band 5.725 5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

- Output power Limit Calculation

Band	Power Limit [mW]	Calculated Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]
U-NII 1	250	23.97	-1.30	23.97

Band	Power Limit [mW] Least 26 dBc BW [MHz]	Calculated Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]	
II NIII 2 A	250	23.97	-1.30	23.73	
U-NII 2A	18.77	23.73	-1.50		
II NII 2C	250	23.97	0.22	23.72	
U-NII 2C	18.71	23.72	-0.33	23.72	

Band	Power Limit [mW]	Calculated Limit [dBm]	Antenna Gain [dBi]	Determined Limit [dBm]
U-NII 3	1000	30.00	-0.13	30.00

■ Test Configuration



Method PM-G

■ Test Procedure

Method PM-G of KDB789033 D02

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

■ Test Results: Comply

- Output Power: Single

	011		Test Result [dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	
	36	5180	15.52	15.57	
	40	5200	15.58	15.65	
	48	5240	15.41	15.76	
	52	5260	15.61	15.68	
	60	5300	15.41	15.55	
000 44 -	64	5320	15.59	15.60	
802.11a	100	5500	15.51	15.29	
	120	5600	15.93	15.70	
	144	5720	15.98	15.26	
	149	5745	15.95	15.20	
	157	5785	15.96	15.08	
	165	5825	15.78	15.29	

Mode	СН	Freq.[MHz]	Test Result [dBm]	
Widde	011	i req.[iviri2]	ANT 1	ANT 2
	36	5180	14.65	14.58
	40	5200	14.55	14.62
	48	5240	14.36	14.60
	52	5260	14.37	14.60
	60	5300	14.49	14.41
802.11n	64	5320	14.37	14.43
(HT20)	100	5500	14.74	14.16
	120	5600	14.69	14.56
	144	5720	14.96	14.20
	149	5745	14.91	14.14
	157	5785	14.83	14.07
	165	5825	14.54	14.26



Mode	СН	Freq.[MHz]	Test Result[dBm]		
	On On	Freq.[MH2]	ANT 1	ANT 2	
	38	5190	10.75	11.03	
	46	5230	14.10	14.48	
	54	5270	14.09	14.45	
	62	5310	10.60	10.87	
802.11n (HT40)	102	5510	10.98	10.65	
(**************************************	118	5590	14.62	14.51	
	142	5710	14.84	14.43	
	151	5755	14.86	14.40	
	159	5795	14.74	14.28	

Mode	СН	Freq.[MHz]	Test Result[dBm]		
	OII	1 164.[M112]	ANT 1	ANT 2	
	36	5180	14.51	14.41	
	40	5200	14.42	14.50	
	48	5240	14.29	14.50	
	52	5260	14.28	14.47	
	60	5300	14.36	14.28	
802.11ac	64	5320	14.24	14.28	
(VHT20)	100	5500	14.61	14.08	
	120	5600	14.59	14.45	
	144	5720	14.92	14.09	
	149	5745	14.83	14.01	
	157	5785	14.76	13.95	
	165	5825	14.41	14.16	



Mode	СН	Freq.[MHz]	Test Result[dBm]		
	CII	1 1 6 4.[WI112]	ANT 1	ANT 2	
	38	5190	10.74	11.01	
	46	5230	14.08	14.52	
	54	5270	14.11	14.49	
	62	5310	10.68	10.89	
802.11ac (VHT40)	102	5510	11.05	10.70	
(**************************************	118	5590	14.59	14.55	
	142	5710	14.80	14.42	
	151	5755	14.79	14.32	
	159	5795	14.73	14.25	

Mode	СН	Freq.[MHz]	Test Result[dBm]		
	СП	Freq.[MH2]	ANT 1	ANT 2	
	42	5210	10.92	10.24	
	58	5290	10.50	10.23	
802.11ac	106	5530	13.04	12.11	
(VHT80)	122	5610	13.18	12.19	
	138	5690	13.01	12.21	
	155	5775	13.02	11.78	

- Summed Output Power: CDD

			Test Result [dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	36	5180	15.52	15.57	18.56	
	40	5200	15.58	15.65	18.63	
	48	5240	15.41	15.76	18.60	
	52	5260	15.61	15.68	18.65	
	60	5300	15.41	15.55	18.49	
902.446	64	5320	15.59	15.60	18.60	
802.11a	100	5500	15.51	15.29	18.41	
	120	5600	15.93	15.70	18.82	
	144	5720	15.98	15.26	18.65	
	149	5745	15.95	15.20	18.60	
	157	5785	15.96	15.08	18.55	
	165	5825	15.78	15.29	18.55	

Mada			Test Result [dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	36	5180	14.65	14.58	17.62	
	40	5200	14.55	14.62	17.59	
	48	5240	14.36	14.60	17.49	
	52	5260	14.37	14.60	17.50	
	60	5300	14.49	14.41	17.46	
802.11n(HT20)	64	5320	14.37	14.43	17.41	
002.1111(11120)	100	5500	14.74	14.16	17.47	
	120	5600	14.69	14.56	17.64	
	144	5720	14.96	14.20	17.61	
	149	5745	14.91	14.14	17.55	
	157	5785	14.83	14.07	17.48	
	165	5825	14.54	14.26	17.41	



Mada	O.I.	For a family	Т	Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	38	5190	10.75	11.03	13.90	
	46	5230	14.10	14.48	17.30	
	54	5270	14.09	14.45	17.28	
000.44	62	5310	10.60	10.87	13.75	
802.11n (HT40)	102	5510	10.98	10.65	13.83	
(11140)	118	5590	14.62	14.51	17.57	
	142	5710	14.84	14.43	17.65	
	151	5755	14.86	14.40	17.65	
	159	5795	14.74	14.28	17.53	

			Test Result[dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	36	5180	14.51	14.41	17.47	
	40	5200	14.42	14.50	17.47	
	48	5240	14.29	14.50	17.40	
	52	5260	14.28	14.47	17.39	
	60	5300	14.36	14.28	17.33	
802.11ac	64	5320	14.24	14.28	17.27	
(VHT20)	100	5500	14.61	14.08	17.37	
	120	5600	14.59	14.45	17.53	
	144	5720	14.92	14.09	17.53	
	149	5745	14.83	14.01	17.45	
	157	5785	14.76	13.95	17.38	
	165	5825	14.41	14.16	17.30	



Mada	5 F		Test Result[dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	38	5190	10.74	11.01	13.88	
	46	5230	14.08	14.52	17.32	
	54	5270	14.11	14.49	17.31	
000.44	62	5310	10.68	10.89	13.80	
802.11ac (VHT40)	102	5510	11.05	10.70	13.89	
(11140)	118	5590	14.59	14.55	17.58	
	142	5710	14.80	14.42	17.62	
	151	5755	14.79	14.32	17.57	
	159	5795	14.73	14.25	17.50	

Mada	CII	CU From [MUIn]		Test Result[dBm]			
Mode	Сп	CH Freq.[MHz] ANT 1	ANT 1	ANT 2	ANT1+ANT2 (CDD)		
	42	5210	10.92	10.24	13.60		
	58	5290	10.50	10.23	13.38		
802.11ac	106	5530	13.04	12.11	15.61		
(VHT80)	122	5610	13.18	12.19	15.72		
	138	5690	13.01	12.21	15.64		
	155	5775	13.02	11.78	15.45		

- Summed Output Power: SDM

Mode	OII.	OU From MALL-1	Test Result [dBm]			
	СН	Freq. [MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)	
	36	5180	14.66	14.63	17.65	
	40	5200	14.62	14.71	17.67	
	48	5240	14.49	14.75	17.63	
	52	5260	14.42	14.73	17.59	
	60	5300	14.50	14.57	17.55	
802.11n	64	5320	14.42	14.55	17.50	
(HT20)	100	5500	14.70	14.40	17.56	
	120	5600	14.73	14.75	17.75	
	144	5720	14.94	14.29	17.63	
	149	5745	14.85	14.19	17.54	
	157	5785	14.75	14.11	17.45	
	165	5825	14.46	14.29	17.39	

Mada	CII	Fue or FMALL=1	Test Result[dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)	
	38	5190	10.90	11.15	14.04	
	46	5230	14.33	14.69	17.52	
	54	5270	14.36	14.73	17.56	
000.44	62	5310	10.84	11.09	13.98	
802.11n (HT40)	102	5510	11.14	10.90	14.03	
(11140)	118	5590	14.72	14.75	17.74	
	142	5710	14.87	14.51	17.70	
	151	5755	14.84	14.49	17.68	
	159	5795	14.81	14.36	17.60	



Maria	011	For a family	Test Result[dBm]			
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)	
	36	5180	14.64	14.71	17.68	
	40	5200	14.65	14.79	17.73	
	48	5240	14.48	14.90	17.71	
	52	5260	14.45	14.87	17.67	
	60	5300	14.56	14.65	17.62	
802.11ac	64	5320	14.46	14.68	17.58	
(VHT20)	100	5500	14.70	14.19	17.46	
	120	5600	14.66	14.49	17.59	
	144	5720	14.93	14.11	17.54	
	149	5745	14.84	14.36	17.62	
	157	5785	14.79	14.27	17.54	
	165	5825	14.42	14.45	17.44	

Mode	CU From [MU=1		Test Result[dBm]			
	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)	
	38	5190	10.96	11.20	14.09	
	46	5230	14.27	14.72	17.51	
	54	5270	14.27	14.74	17.52	
000.44 = -	62	5310	10.76	11.14	13.96	
802.11ac (VHT40)	102	5510	11.11	10.91	14.02	
(**************************************	118	5590	14.63	14.75	17.70	
	142	5710	14.77	14.55	17.67	
	151	5755	14.76	14.44	17.61	
	159	5795	14.67	14.37	17.53	

Mode	СН	Freq.[MHz]	Test Result[dBm]		
	OH	1 104.[M112]	ANT 1	ANT 2	ANT1+ANT2 (SDM)
	42	5210	10.83	10.32	13.59
	58	5290	10.55	10.36	13.46
802.11ac	106	5530	13.05	12.20	15.66
(VHT80)	122	5610	13.09	12.39	15.76
	138	5690	12.98	12.26	15.64
	155	5775	13.01	11.82	15.47



8.4 Maximum Power Spectral Density

■ Test requirements

Part. 15.407(a)

- (1) For the band 5.15 5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. note1

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- (ii) For an indoor access point operating in the band 5.15 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. $^{\text{note1}}$
- (iii) For fixed point-to-point access points operating in the band 5.15 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
- (iv) For mobile and portable client devices in the 5.15 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. note1
- (2) For the 5.25 5.35 GHz and 5.47 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. note1
- (3) For the band 5.725 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.^{note1,note2}
- **Note1**: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- **Note2**: Fixed point to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

- Peak Power Spectral Density Limit Calculation

Band	Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]
U-NII 1	11	-1.30	11
U-NII 2A	11	-1.30	11
U-NII 2C	11	-0.33	11
U-NII 3	30	-0.13	30

■ Test Configuration

Refer to the APPENDIX I.



■ Test Procedure

Maximum Power Spectral Density is measured using Measurement Procedure of KDB789033 D02v02r01

- 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA 1, SA 2, SA 3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- 2) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- 3) Make the following adjustments to the peak value of the spectrum, if applicable:

a) If Method SA - 2 or SA - 2 Alternative was used, add 10 log(1 / x), where x is the duty cycle, to the peak of the spectrum.

- b) If Method SA 3 Alternative was used and the linear mode was used in step II.E.2.g (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- 4) The result is the Maximum PSD over 1 MHz reference bandwidth.
- 5) For devices operating in the bands 5.15 5.25 GHz, 5.25 5.35 GHz, and 5.47 5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in §15.407(a)(5). For devices operating in the band 5.725 5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set RBW ≥ 1 / T, where T is defined in section II.B.1.a). (Refer to Appendix II)
 - b) Set VBW ≥ 3 RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log(500 kHz / RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log(1 MHz / RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW = 100 kHz is available on nearly all spectrum analyzers.

■ Test Results: Comply

- Summed Power spectral density: CDD

Mode	Channel	Frequency		ding Bm]	T.F [dB]	Test Result [dBm]
Mode		[MHz]	ANT 1	ANT 2	Note 1	ANT1+ANT2+T.F (CCD)
	36	5180	3.68	4.75		7.30
	40	5200	3.67	5.02		7.45
	48	5240	3.28	5.08		7.32
	52	5260	3.46	4.85		7.26
	60	5300	3.56	4.90	0.04	7.33
802.11a	64	5320	3.38	4.79		7.19
002.11a	100	5500	3.85	4.86		7.43
	120	5600	3.75	5.21		7.59
	144	5720	4.18	4.73		7.51
	149	5745	-5.08	-4.46		5.28
	157	5785	-5.07	-4.42	7.03	5.31
	165	5825	-5.31	-3.76		5.57
	36	5180	1.79	2.82		5.37
	40	5200	1.84	3.27		5.64
	48	5240	1.60	3.41		5.63
	52	5260	1.64	3.37		5.62
	60	5300	1.55	3.17	0.02	5.47
802.11n	64	5320	1.37	3.10		5.35
(HT20)	100	5500	1.89	3.04		5.53
	120	5600	1.83	3.55		5.80
	144	5720	2.41	3.29		5.90
	149	5745	-6.84	-5.61		3.84
	157	5785	-6.73	-5.86	7.01	3.75
	165	5825	-6.90	-5.50		3.88
	38	5190	-4.66	-3.16		-0.82
	46	5230	-1.35	0.35		2.61
	54	5270	-1.50	0.28		2.51
	62	5310	-4.65	-3.22	0.02	-0.85
802.11n (HT40)	102	5510	-4.57	-3.27		-0.84
(11140)	118	5590	-0.86	0.67		3.00
	142	5710	-0.59	0.49		3.01
	151	5755	-9.79	-8.62	7.04	0.85
	159	5795	-9.85	-8.79	7.01	0.73
	42	5210	-8.28	-6.70		-4.39
	58	5290	-8.47	-6.64		-4.43
802.11ac	106	5530	-6.15	-4.38	0.02	-2.15
(VHT80)	122	5610	-5.81	-4.28		-1.95
	138	5690	-5.72	-4.24	1	-1.89
	155	5775	-14.99	-13.81	7.01	-4.34

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Note 1: "U-NII 3 [T.F] = 10*LOG(500kHz/100kHz) + DCCF" = 6.99dB + DCCFFor DCCF(Duty Cycle Correction Factor) please refer to appendix II.

Note 2: Test Result = Measurement Data + T.F

- Summed Power spectral density: SDM

Mada	Readin Frequency [dBm]			T.F [dB]	Test Result [dBm]	
Wode		[MHZ]	ANT 1	ANT 2	Note 1	ANT1+ANT2+T.F (SDM)
	36	5180	1.96	3.15		5.63
	40	5200	2.12	3.47		5.88
	48	5240	1.88	3.54		5.82
	52	5260	1.88	3.39		5.73
	60	5300	1.92	3.40	0.02	5.75
802.11n	64	5320	1.56	3.15		5.46
(HT20)	100	5500	2.29	3.23		5.82
	120	5600	2.22	3.70		6.05
	144	5720	2.61	3.35		6.03
	149	5745	-6.59	-5.77		3.86
	157	5785	-6.77	-5.69	7.01	3.82
	165	5825	-7.03	-5.57		3.78
	38	5190	-4.58	-3.42		-0.93
	46	5230	-1.17	0.30		2.66
	54	5270	-1.19	0.25		2.62
000.44	62	5310	-4.50	-3.24	0.02	-0.79
802.11n (HT40)	102	5510	-4.49	-3.21		-0.77
(11140)	118	5590	-0.74	0.73		3.09
	142	5710	-0.31	0.74		3.28
	151	5755	-9.78	-8.62	7.01	0.86
	159	5795	-9.60	-8.31	7.01	1.11
	42	5210	-8.01	-6.63		-4.24
	58	5290	-8.42	-6.57		-4.37
802.11ac	106	5530	-6.15	-4.24	0.02	-2.06
(VHT80)	122	5610	-5.68	-4.12		-1.80
	138	5690	-5.44	-4.03		-1.65
N. 4	155	5775	-14.97	-13.99	7.01	-4.43

Note 1: "U-NII 3 [T.F] = 10*LOG(500kHz/100kHz) + DCCF" = 6.99dB + DCCFFor DCCF(Duty Cycle Correction Factor) please refer to appendix II.

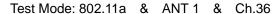
Note 2: Test Result = Measurement Data + T.F

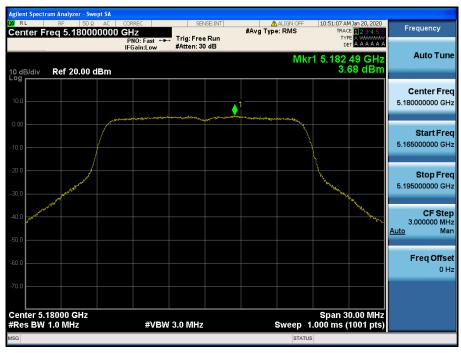


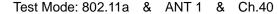
RESULT PLOTS

- Power spectral density: CDD-Antenna 1

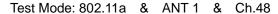
Maximum Power Spectral Density





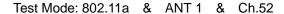




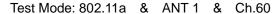


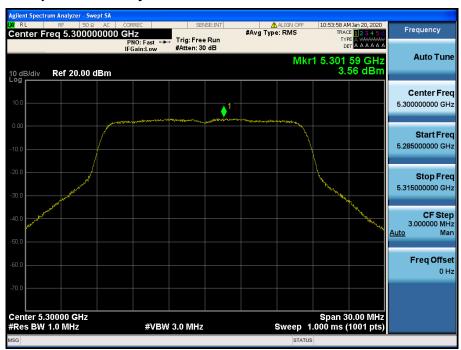


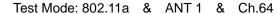
Maximum Power Spectral Density

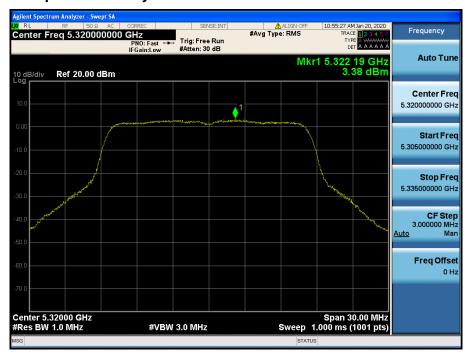














Maximum Power Spectral Density

